ORDER NO. GAD8707137C2

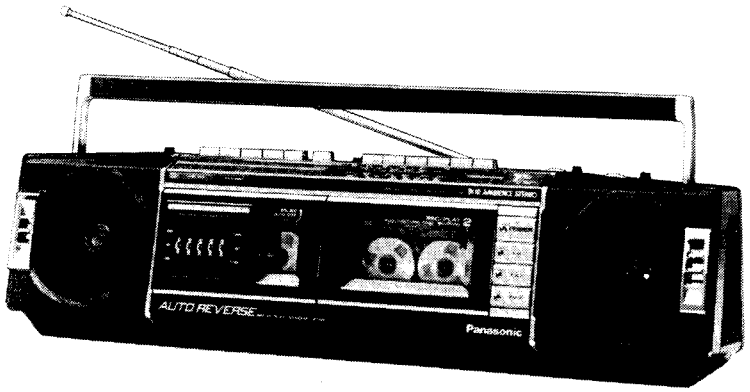
Service Manual

Radio Cassette

Stereo Radio Cassette Recorder

RX-FW29L

(Black)



This is the Service Manual for the following area.

[Z].....For all European areas except [ZE][ZF][ZI][ZG]

[ZE]...For United Kingdom.

[ZF]...For France.

[ZI].....For Italy.

[ZG]...For F.R.Germany.

RX-FW29 MECHANISM SERIES

■ SPECIFICATIONS

General:

Power Requirement:	AC;[Z][ZF][ZI][ZG]...220V,50Hz [ZE]...240V,50Hz Battery;12V(Eight"D"Size Fiashlight Batteries) (Panasonic UM-1 or equivalent)
Power Consumption:	29W(AC only)
Power Output:	36W(18Wx2)...PMPO 18W(9Wx2)...MPO
Speaker:	Woofer;10cm(4") PM Dynamic speaker(2.7Ω)x2 Tweeter;1.4cm x 2.5cm (3/4"x1") Ceramic speaker(1.5kΩ)x2
Input:	Mix Mic;sensitivity 5mV/ applicable microphone impedance 200~600Ω,ø3.5 CD/Line in;sensitivity 316mV/47KΩover
Output:	Headphones;32Ω(8~50Ω),ø3.5
Dimensions:	535mm(W)x147mm(H)x129mm(D) 21-1/16"(W)x5-13/16"(H)x5-3/32"(D)
Weight;	3.5Kg(7lbs.12oz.) without batteries

Radio Section;

Radio Frequency Range;	FM;87.5~108MHz LW;148.5~285kHz MW;520~1610KHz SW;5.9~18MHz
Intermediate frequency;	FM;10.7MHz [Z][ZF][ZI] [ZG] ...AM(LW/MW/SW); 455kHz [ZE]...AM(LW/MW/SW);470kHz
Sensitivity:	FM;2.5μV/50mW output (-3dB Limit Sens) LW;63μV/m/50mW output MW;56μV/m/50mW output SW;4.0μV/50mW output

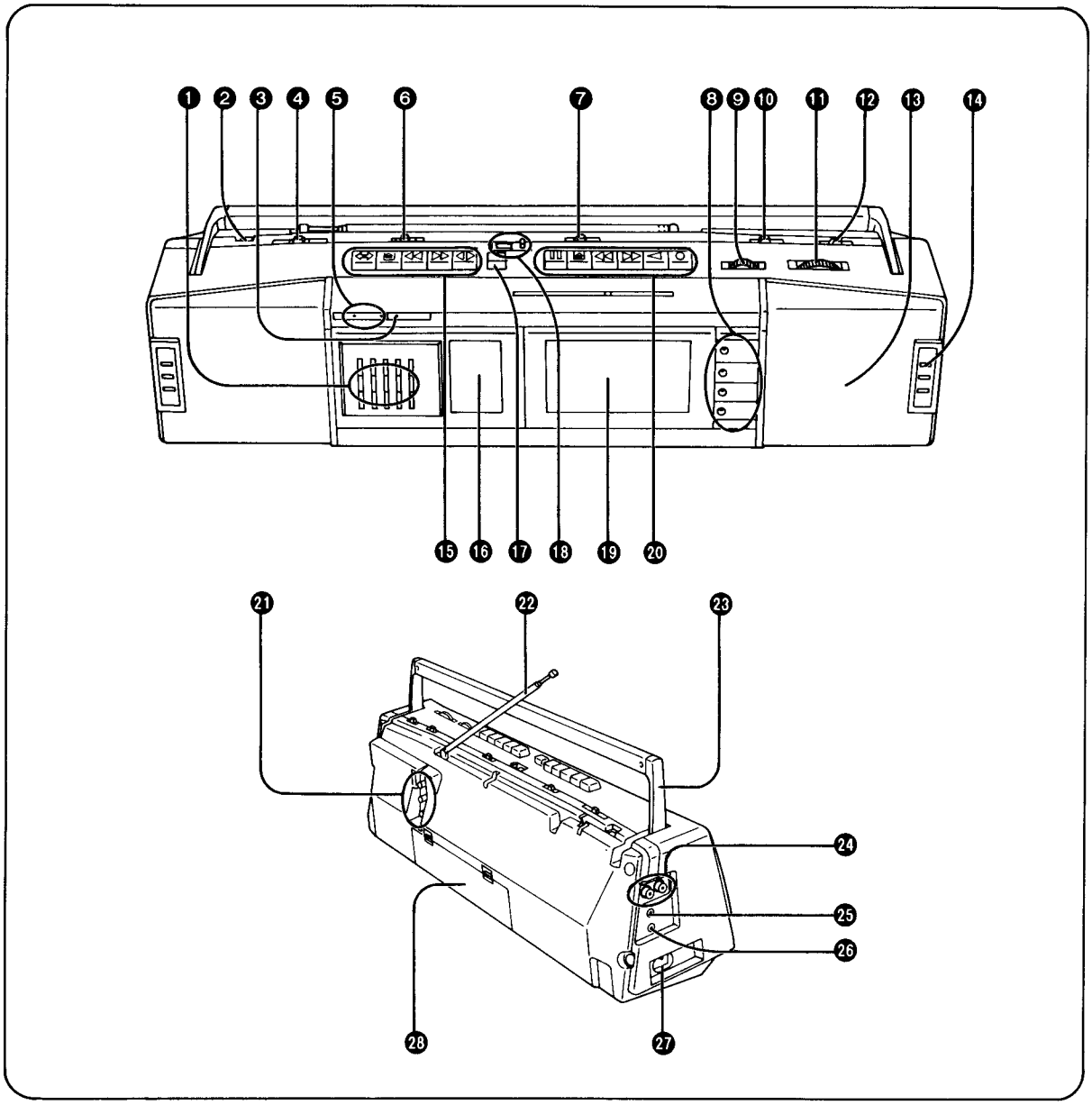
Tape Deck Section:	**TAPE 1**
Frequency Response:	80~10,000Hz(with normal tape)
Tape Speed:	1-7/8ips(4.8cm/s)
Track System:	4-track 2-channel stereo playback
Tape Deck Section:	**TAPE 2**
Frequency Response:	80~10,000Hz(with normal tape)
Recording System:	AC bias,Magnet erase
Tape Speed:	1-7/8ips(4.8cm/s)
Track System:	4-track 2-channel stereo recording and playback

Weights and dimensions shown are approximate.
Design and specifications are subject to change without notice.

Panasonic

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka Japan

LOCATION OF CONTROLS



❶ Graphic Equalizer Controls (GRAPHIC EQUALIZER)
❷ Built-in Microphone (MICROPHONE)
❸ FM Stereo Indicator (FM STEREO)
❹ Volume Control (VOLUME)
❺ Operation/Battery Check/Direction Indicators (OPR/BATT/FWD/REV)
❻ Function Selector (SELECTOR)
❼ Editing Mode Selector (EDITING)
❽ FM Preset Tuning Buttons
❾ Fine Tuning Control (FINE TUNING)
❿ Band Selector (BAND)
⓫ Tuning Control (TUNING)
⓬ Mode Selector/Beat-Proof Switch (MODE/B.P)
⓭ Speakers (Woofer) 10cm, 3Ω
⓮ Speakers (Tweeter) 1.4 × 2.5cm, 1.5kΩ

TAPE 1 CONTROLS

⓯ Tape 1 Operation Buttons

- Direction Button (◀▮▮▶ DIRECTION)
- Stop/Eject Button (⏏ STOP/EJECT)
- Fast/Cue Buttons (◀◀ • ▶▶ FAST/CUE)
- Playback Button (◀ ▶ PLAY)

⓰ Tape 1 Cassette Compartment
⓱ Reverse Mode Selector (REVERSE MODE)

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TAPE 2 CONTROLS

⑱ **Tape 2 Counter and Reset Button (TAPE 2 COUNTER)**
⑲ **Tape 2 Cassette Compartment**
⑳ **Tape 2 Operation Buttons**

- **Pause Button (❚❚ PAUSE)**
- **Stop/Eject Button (⏏ STOP/EJECT)**
- **Fast Forward Button (◀◀FF)**
- **Rewind Button (▶▶ REW)**
- **Playback Button (◀ PLAY)**
- **Record Button (● RECORD)**

㉑ **FM Preset Tuning Controls (FM PRESET TUNING)**
㉒ **Telescopic Antenna**
㉓ **Handle**
㉔ **CD/Line Input Jacks (CD/LINE IN) 47kΩ**
㉕ **Mixing Microphone Jack (MIXING MIC) 200~600Ω**
㉖ **Headphones Jack (PHONES) 32Ω (8~50Ω)**

When using the headphones (EAH-S12, optional), avoid listening to sound at excessive volume levels, because it may injure your ears.

㉗ **AC Socket (AC IN ~)**
㉘ **Battery Compartment**

The Name Plate of this set is located on the bottom of the unit.

BATTERY SERVICE LIFE

UM-1 (D-size) Batteries
Approx. 21 hours of recording (EIAJ)
Approx. 8.5 hours of playback (EIAJ) with volume set at 3/4 position

The above battery service life is measured according to the conditions set forth by EIAJ (Electronic Industries Association of Japan). As the battery service life varies with the method of operation and environmental conditions, use these values as reference.

RADIO

1. Set the Function Selector to "RADIO".
   • The Power/Battery Check/Direction Indicator will light.
2. Set the Band Selector to the desired radio band.
3. Tune in your favorite station using the Tuning Control.
   • Set the FM Preset Tuning Button to "MANUAL" when using the Tuning Control for FM reception.
4. Set the Mode Selector to "AMBIENCE", "STEREO" or "FM MONO".
   (In receiving an FM stereo broadcast, a great "ambience effect" is obtained when you set the Mode Selector to "AMBIENCE".)
5. Adjust the Volume and Graphic Equalizer Controls to the desired settings.
   (Refer below for the operation of the Graphic Equalizer.)
6. The radio can be turned off by setting the Function Selector to "POWER OFF/TAPE".

Notes:

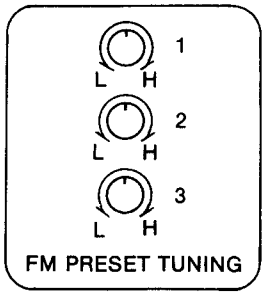
- To receive FM stereo broadcasts, set the Mode Selector to "STEREO" or "AMBIENCE". The FM Stereo Indicator will light during stereo broadcasts.
- If FM stereo reception is poor (excessive noise, FM Stereo Indicator flickers), set the Mode Selector to "FM MONO". This will reduce the noise and provide clear reception; however, the broadcast will not be heard in stereo.

TOUCH'n' TUNE

This feature makes it possible to preset your three favorite FM stations and receive one of them by one touch operation.

■ How to preset the FM stations

1. Set the Function Selector to "RADIO".
2. Set the Band Selector to "FM".
3. Press one of the FM Preset Tuning Buttons which you want to preset into.
4. Turn to tune the corresponding FM Preset Tuning Control on the back of the unit to one of your favorite FM stations.



FM PRESET TUNING

5. Repeat the steps 1–4 to preset a station in each of the remaining FM Preset Tuning Buttons.
   • When a new frequency is preset the frequency previously preset in the button will be cancelled.

■ How to use Touch'n' Tune

1. Set the Function Selector to "RADIO".
2. Set the Band Selector to "FM".
3. Press the FM Preset Tuning Button.
   • The preset station can be received.
   • You can change to another preset station by only pressing one of the FM Preset Tuning Buttons.

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DISASSEMBLY INSTRUCTIONS

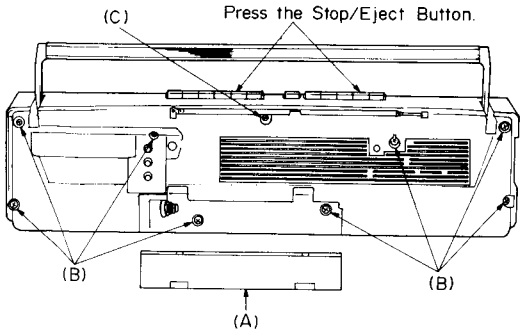

Fig. 1

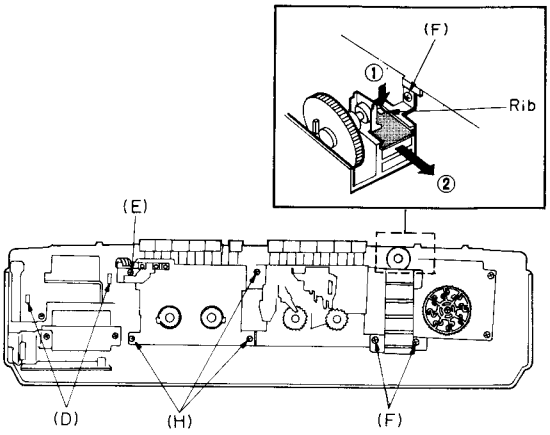

Fig. 2

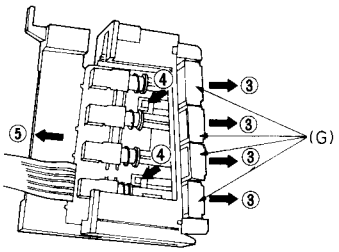

Fig. 3

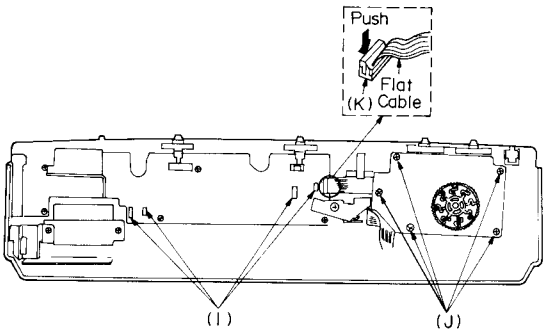

Fig. 4

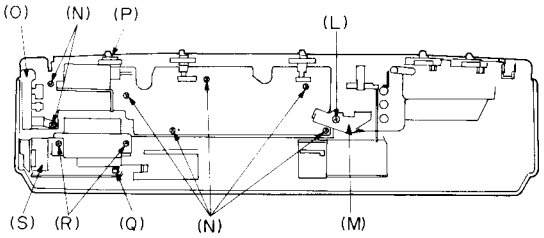

Fig. 5

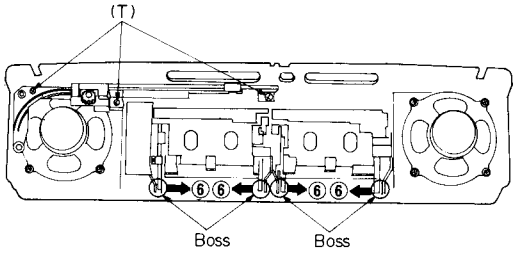

Fig. 6

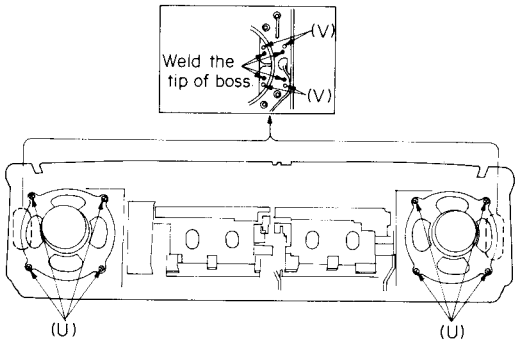

Fig. 7

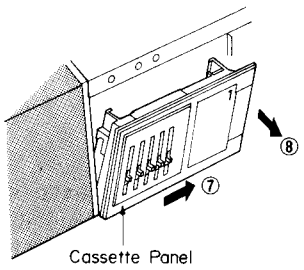

Fig. 8

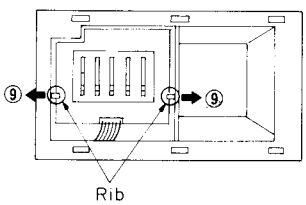

Fig. 9

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Steps.	Shown in Fig. —.	To remove —.	Remove —.
1	1	Front Panel (※1)	Battery cover..... (A)×1
2			Screw (3×50)mm..... (B)×8
3			Screw (3×20)mm..... (C)×1
4			Press the Stop/Eject button.
5	2		Socket (CP7, CP8) ..... (D)×2
6	2	LED Circuit Board	Screw (3×12)mm..... (E)×1
7	2	Fine Tuning Circuit Board	Push the rib in the direction of arrows ① and pull out the fine tuning circuit board in the direction of arrow ②.
8	2	Switch Circuit Board	Screw (3×12)mm..... (F)×3
9	3		Pull the buttons in the direction of arrows ③ ..... (G)×4
10			Push the rib in the direction of arrows ④ and pull out the switch circuit board in the direction of arrow ⑤.
11	2	Mechanism (Tape 1, Tape 2)	Screw (3×12)mm..... (H)×3
12	4		Socket (CP2, CP3, CP4, CP5)..... (I)×4
13	4	Tuner Circuit Board	Screw (3×12)mm..... (J)×5
14			Flat cable (CP6)..... (K)×1
15	5	Main Circuit Board	Screw (3×10)mm..... (L)×1
16			Record/Playback lever..... (M)×1
17			Screw (3×12)mm..... (N)×7
18			Jack holder ..... (O)×1
19			Switch lever..... (P)×1
20			Socket (CP1)..... (Q)×1
21	5	Power Transformer Circuit Board	Screw (3×12)mm..... (R)×2
22			Holder ..... (S)×1
23	6	Dial Chassis	Screw (3×12)mm..... (T)×3
24	6	Cassette Holder	Push the boss in the direction of arrows ⑥ and pull it off.
25	7	Speakers (Woofer)	Screw (3×10) mm ..... (U)×8
26	7	Tweeter (※2)	Cut the tip of boss..... (V)×4
27	8	Graphic Equalizer Circuit Board	Remove the cassette panel in the direction of arrows ⑦ and ⑧.
28	9		Push the ribs in the direction of arrows ⑨.

(※1) The handle is attached between the front cabinet and the rear cabinet, so the handle can be easily removed by first removing the front cabinet.
(※2) Weld the tip of boss as shown in Fig. 7.

HOW TO REPLACE

- During installation, simultaneously fit in A and A′, B and B′. (Fig. 10)

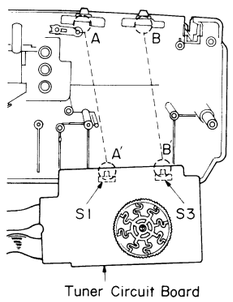
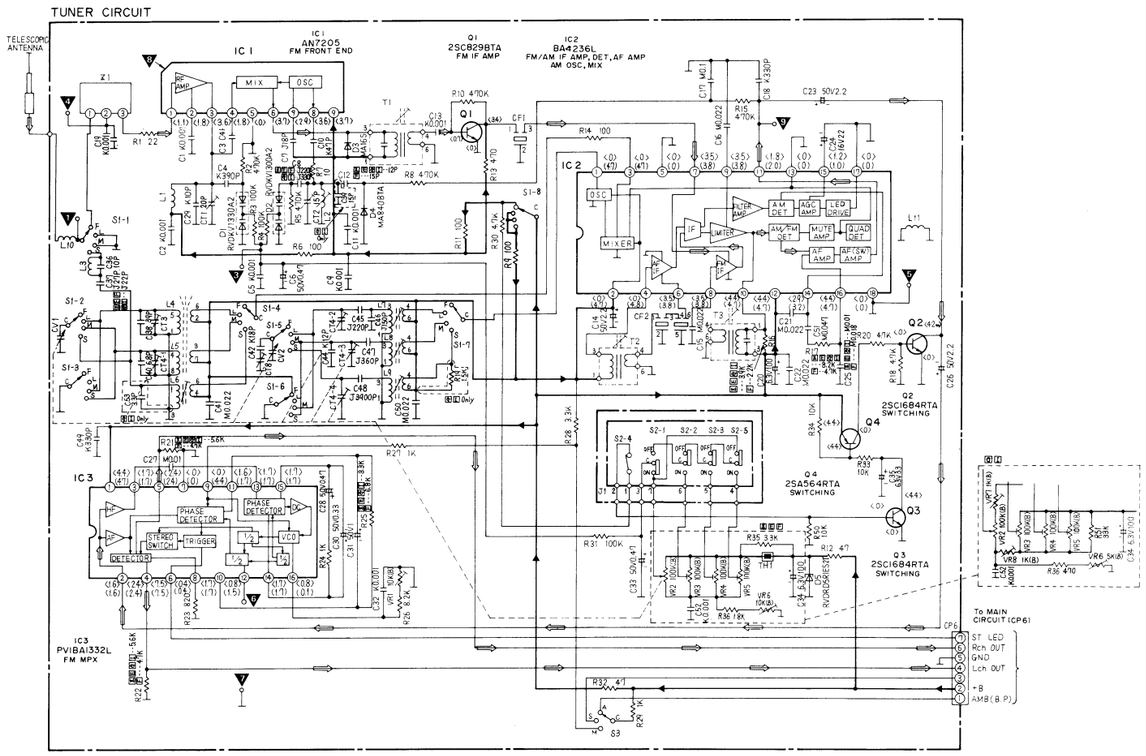
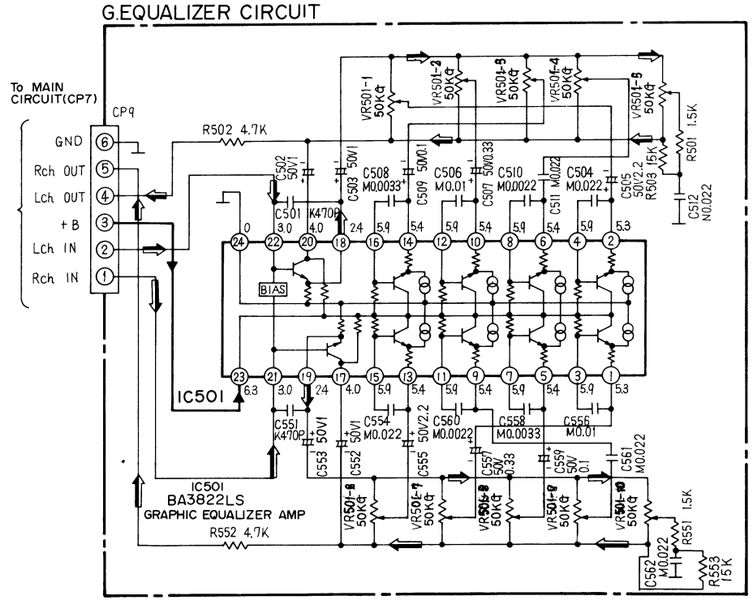


Fig. 10

SCHEMATIC DIAGRAM (Tuner & G.E.Q)





: FM Signal Line : Main (Playback/Radio) Signal Line
: +B Voltage Line

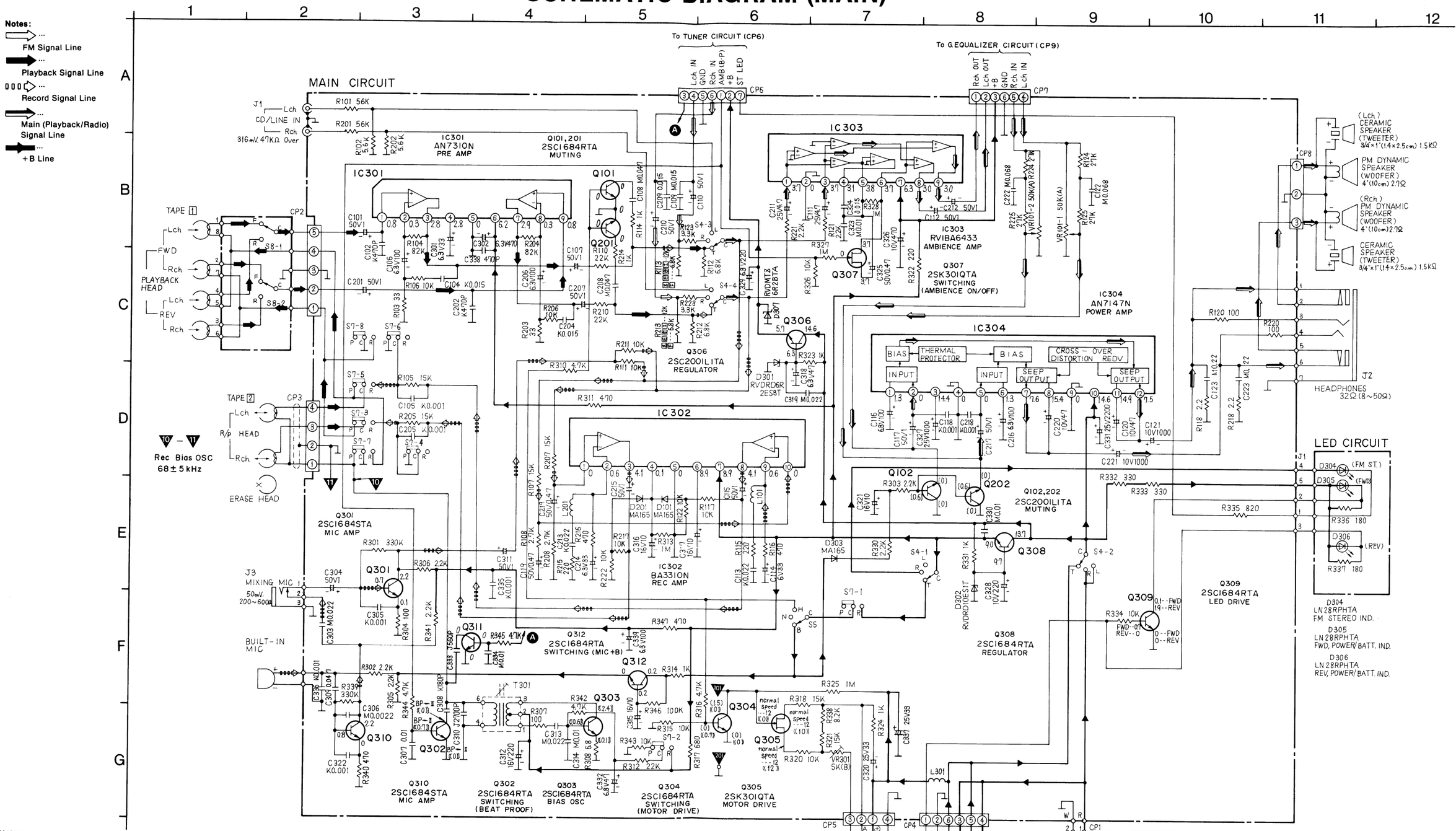
Notes:

1. S1-1～S1-8
   : Band Selector switch in "FM" position.
   (F... FM, M... MW, S... SW, L... LW)
2. S2-1～S2-5
   : FM preset tuning switch in "MANUAL" position.
   (S2-1... MANUAL, S2-2... FM1, S2-3... FM2, S2-4... MANUAL/PRESET SELECT, S2-5... FM3)
3. S3
   : Mode select/Beat-Proof switch in "AMBIENCE/II" position.
   (A... AMBIENCE/II, S... STEREO/I, M... FM MONO/I)
4. VR1
   : FM VCO adjustment VR.
5. VR2
   : FM manual tuning VR.
6. VR3
   : FM 1 preset tuning VR.
7. VR4
   : FM 2 preset tuning VR.
8. VR5
   : FM 3 preset tuning VR.
9. VR6
   : FM varicap voltage adjustment VR.
10. VR7
    : FM preset tuning f-max adjustment VR.
    (ZG, ZI only)
11. VR8
    : FM preset tuning f-min adjustmentVR.
    (ZG, ZI only)
12. VR501-1～VR501-10
    : Graphic equalizer VR.
13. CT8
    : Fine tuning control trimmer capacitor.
14. DC voltage measurement are taken with electronics voltmeter from negative terminal of battery.
    〈 〉... FM, ( )... AM, No mark... Playback
15. The mark (▼) shows test point e.g. ▼1=test point 1.
16. The supply parts number is described alone in the replacement parts list.

- **This schematic diagram may be modified at any time with the development of new technology.**

▼ Be sure to fold at the (▼) mark so that mark is on the outside.

SCHEMATIC DIAGRAM (MAIN)

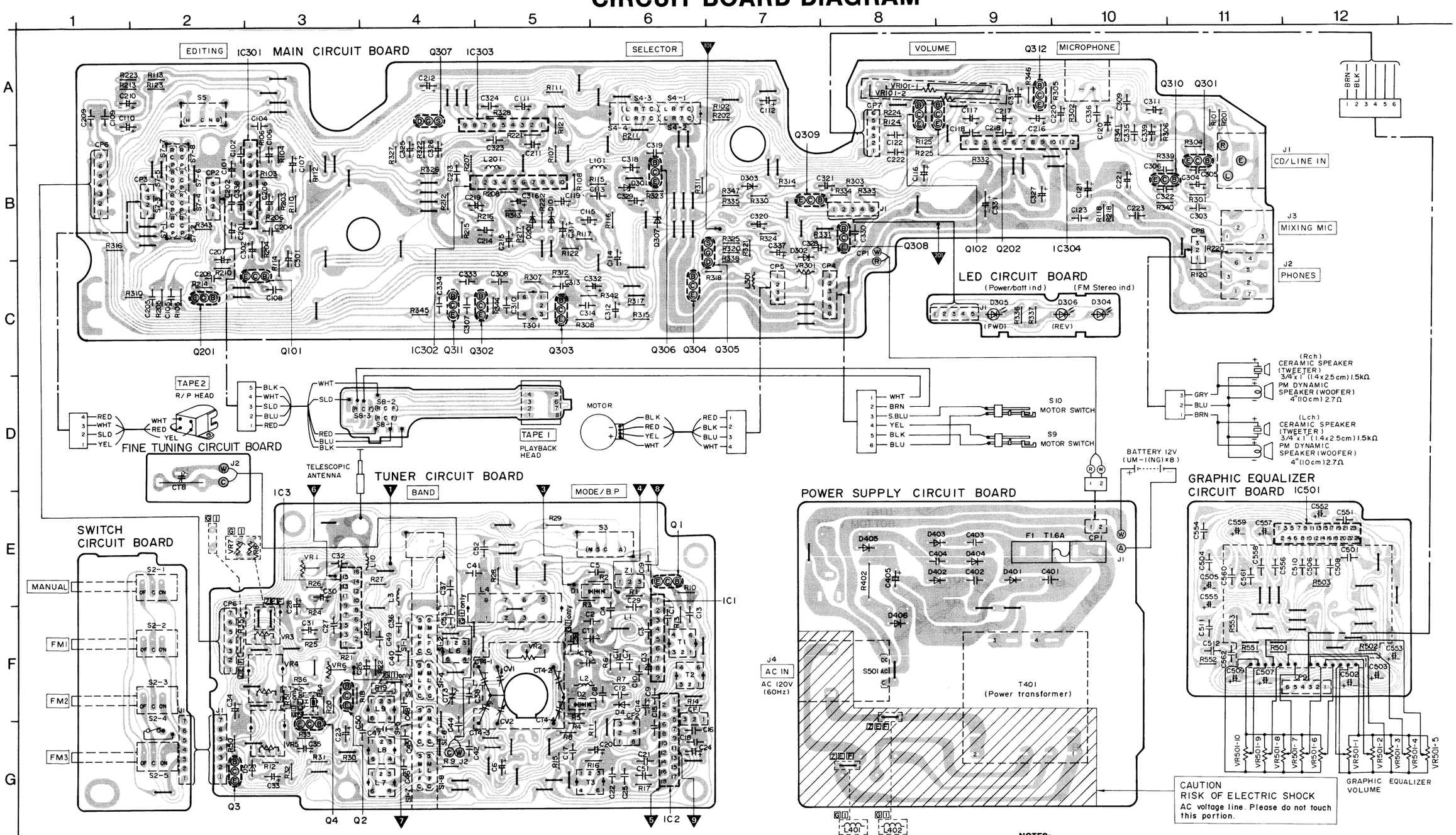


Notes:

1. S4-1~S4-4 : Function Select switch in "TAPE/RADIO [OFF]" position. (T... TAPE/RADIO [OFF], R... RADIO, L... CD/LINE)
2. S5 : Editing mode select switch in "BUILT-IN MIC" position. (B... BUILT-IN MIC, N... NORMAL, H... HIGH)
3. S6 : AC/DC select switch in "DC" position.
4. S7-1~S7-8 : Record/Playback select switch in "PLAYBACK" position. (R... RECORD, P... PLAYBACK)
5. S8-1~S8-3 : FWD/REV select switch in "FWD" position. (F... FWD, R... REV)
6. S9 : TAPE [1] motor switch in "OFF" position.
7. S10 : TAPE [2] motor switch in "OFF" position.
8. VR101-1, VR101-2 : Volume control VR.
9. VR301 : Tape speed adjustment VR.
10. DC voltage measurement are taken with electronics voltmeter from negative terminal of battery.
    ( )... FM, ( )... AM, [ ]... Record, No mark... Playback, [[ ]]... High Speed
11. Battery current: No signal 45.4mA
    Maximum Output
    Playback (Vol. min)..... 100mA
    Playback (Vol. max)..... 980mA
12. The mark (▼) shows test point e.g. ▼1=test point 1.
13. Important safety notice
    Components identified by △ mark have special characteristics important safety.
    When replacing any of these components, use only manufacturer's specified parts.
14. The supply parts number is described alone in the replacement parts list.

- **This schematic diagram may be modified at any time with the development of new technology.**

CIRCUIT BOARD DIAGRAM

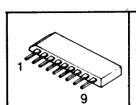
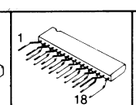
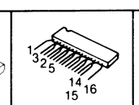
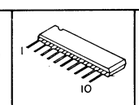
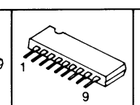
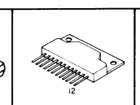
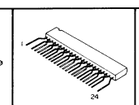
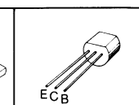
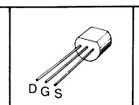
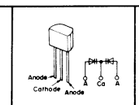
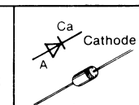


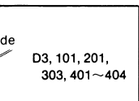
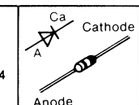
NOTES:

BLK..... Black	L. BLU... Light Blue	SLD..... Shield Wire
BLU..... Blue	NIL..... No Color Mark	VLT..... Violet
BRN..... Brown	ORG..... Orange	WHT..... White
GRY..... Gray	PNK..... Pink	YEL..... Yellow
GRN..... Green	RED..... Red	

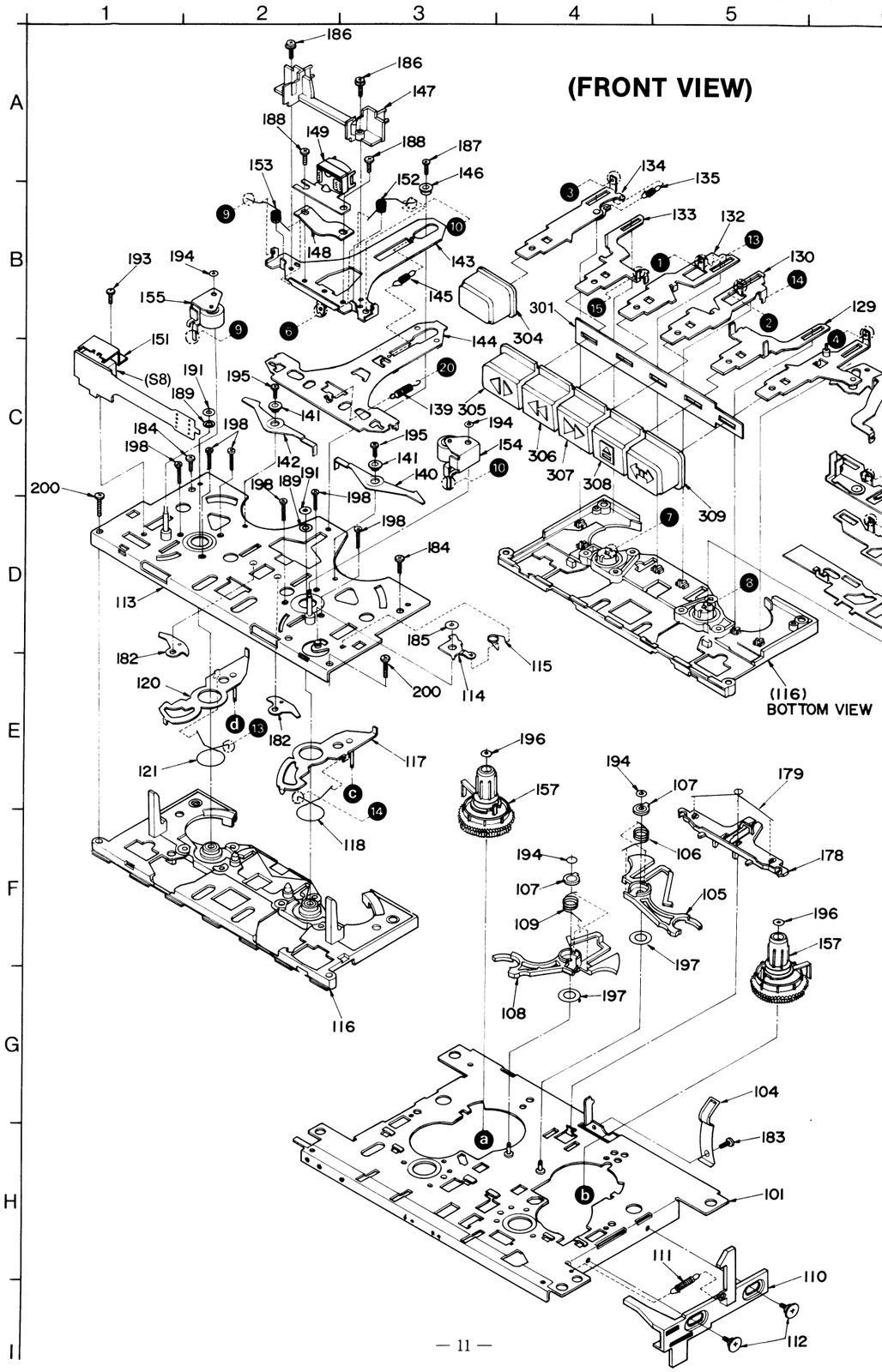
NOTES:

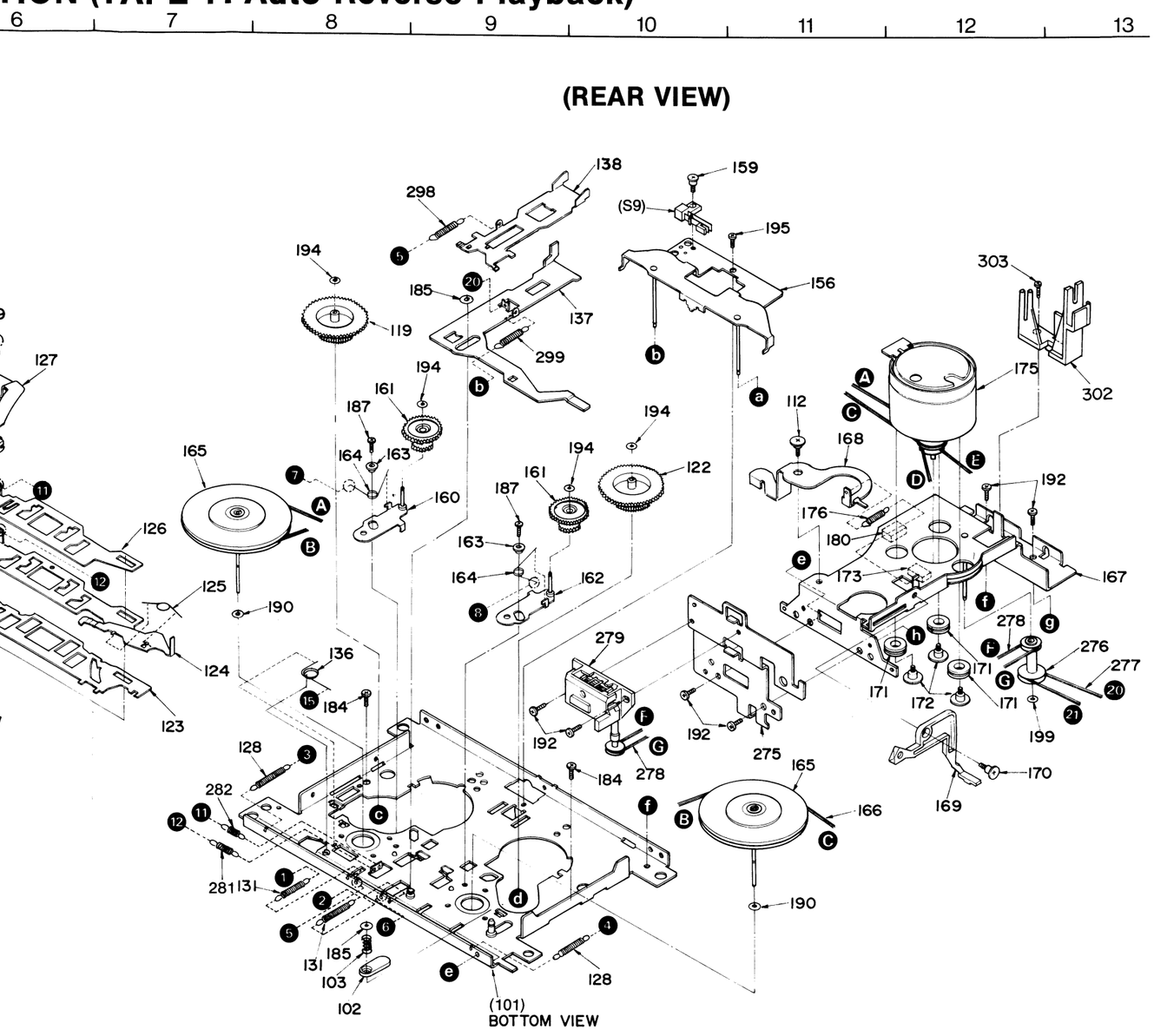
- The circuit shown in ▒▒ on the conductor indicates printed circuit on, the back side of the printed circuit board.
- **The circuit board diagram may be modified at any time with the development of new technology.**

								Q1~4, 101, 102, 201, 202, 301~304, 306, 308~310, 312			
IC1, 301	IC2	IC3	IC302	IC303	IC304	IC501		Q305, 307	D1, 2	D3, 101, 201, 303, 401~404	D4

	
D5, 301, 302	D304~306

MECHANISM PARTS LOCATION (TAPE 1: Auto Reverse Playback)





Specifications

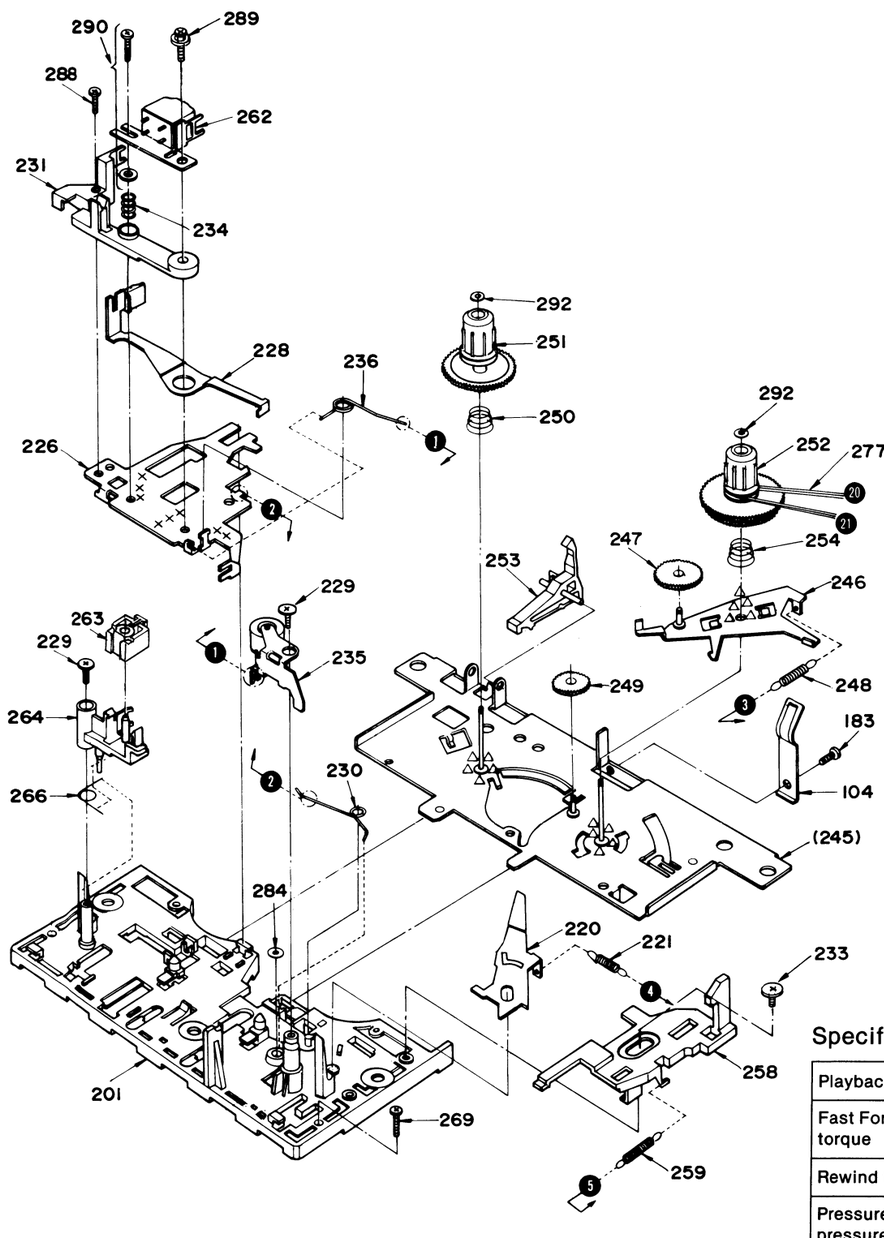
Playback torque	23～55g•cm
Fast Forward torque	55～130g•cm
Rewind torque	55～130g•cm
Pressure of pressure roller	240±50g
Wow and flutter	Less than 0.25% (WRMS)

MECHANISM PARTS LOCATION (TAPE 2: Recording and Playback)

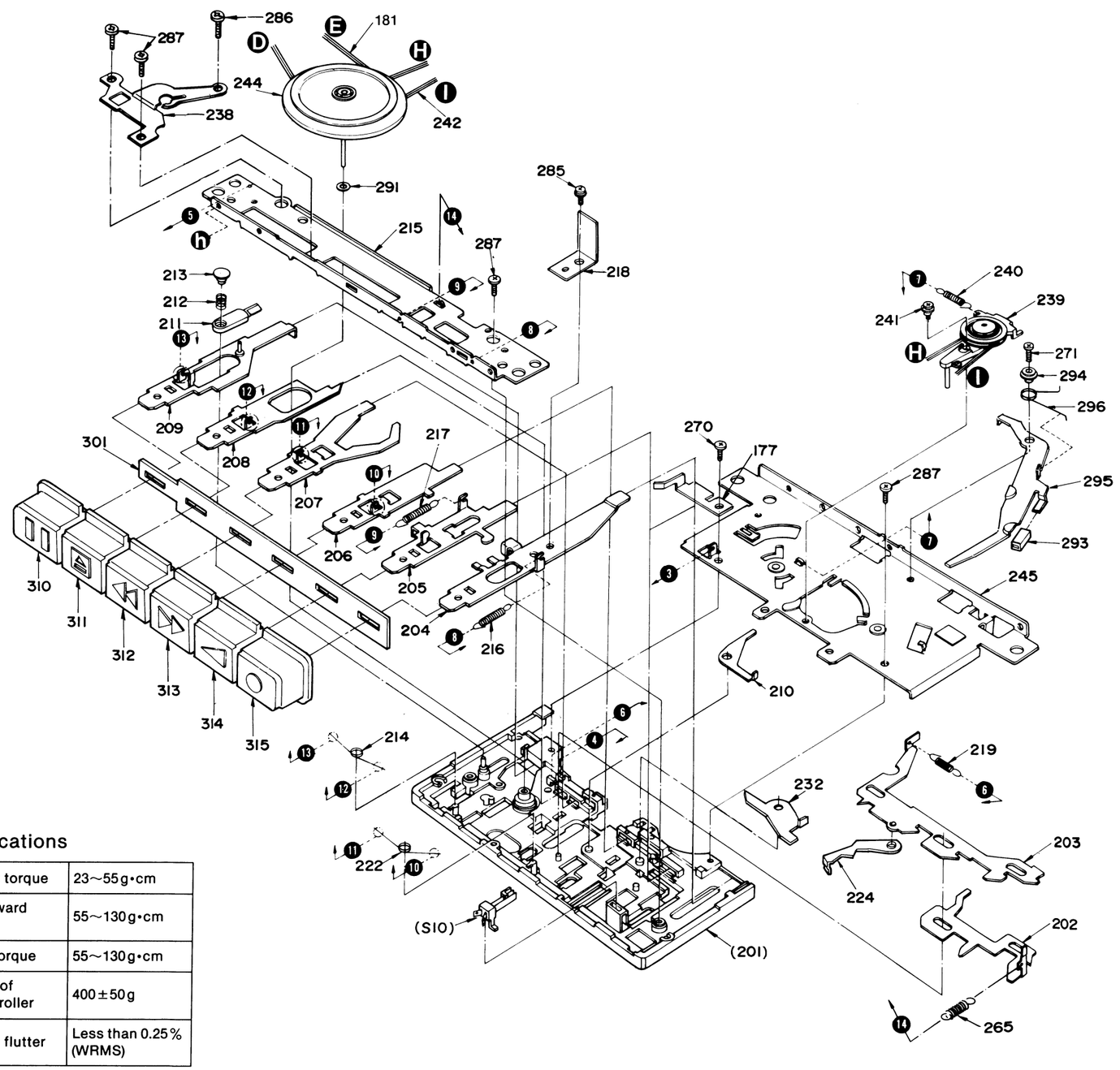
1 2 3 4 5 6 7 8 9 10 11 12 13

A B C D E F G H I

(FRONT VIEW)



(REAR VIEW)



Specifications

Playback torque	23~55g•cm
Fast Forward torque	55~130g•cm
Rewind torque	55~130g•cm
Pressure of pressure roller	400±50g
Wow and flutter	Less than 0.25% (WRMS)

MEASUREMENTS AND ADJUSTMENTS

■ ALIGNMENT INSTRUCTION

[Z]...For all European areas except [E] [F] [I] [G].
[E]...For United Kingdom.
[F]...For France.
[I]...For Italy and Finland.
[G]...For F.R. Germany.

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

1. Set volume control to maximum.
2. Set equalizer control to center.
3. Set band switch to LW, MW, SW or FM.
4. Set mode/B.P. switch to stereo/II.
5. Set function selector to radio.
6. Set fine tuning to center.
7. Set editing switch to normal.
8. Set power source voltage to 9 V DC
9. Output of signal generator should be no higher than necessary to obtain an output reading.

■ LW, MW and SW ALIGNMENT

	BAND	SIGNAL GENERATOR or SWEEP GENERATOR CONNECTIONS	SIGNAL GENERATOR or SWEEP GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR (ELECTRONICS VOLTMETER or SCOPE)	ADJUSTMENT	REMARKS
		AM-IF ALIGNMENT					
(1)	MW	Fashion loop of several turns of wire and radiate signal into loop of receiver.	[Z] [F] [I] [G] ...455 kHz [E]...470 kHz 30% Mod. at 400 Hz	Point of non-interference. (on/about 600 kHz)	Output meter across voice coil.	T2 (AM IFT)	Adjust for maximum output.
		LW-RF ALIGNMENT					
(2)	LW	〃	136 kHz	Tuning capacitor fully closed.	〃	L7 (LW OSC Coil)	〃
(3)	LW	〃	297 kHz	Tuning capacitor fully open.	〃	CT4-2 (LW OSC Trimmer)	〃
(4)	LW	〃	145 kHz	Tune to signal.	〃	(*1) L4 (LW ANT Coil)	Adjust for maximum output. Adjust L4 by moving coil bobbin along ferrite core.
(5)	LW	〃	285 kHz	〃	〃	CT3 (LW ANT Trimmer)	Adjust for maximum output. Repeat steps (2)~(5).
		MW-RF ALIGNMENT					
(6)	MW	〃	511 kHz	Tuning capacitor fully closed.	〃	L8 (MW OSC Coil)	Adjust for maximum output.
(7)	MW	〃	1,650 kHz	Tuning capacitor fully open.	〃	CT4-3 (MW OSC Trimmer)	〃
(8)	MW	〃	550 kHz	Tune to signal.	〃	(*1) L5 (MW ANT Coil)	Adjust for maximum output. Adjust L5 by moving coil bobbin along ferrite core.
(9)	MW	〃	1,500 kHz	〃	〃	CT4-1 (MW ANT Trimmer)	Adjust for maximum output. Repeat steps (6)~(9).
	(*1) Cement antenna bobbin with wax after completing alignment.						
		SW-RF ALIGNMENT					
(10)	SW	Connect to test point ▼1 through ceramic capacitor (10 pF). Negative side to test point ▼4.	5.75 MHz	Tuning capacitor fully closed.	〃	L9 (SW OSC Coil)	Adjust for maximum output.
(11)	SW		18.8 MHz	Tuning capacitor fully open.	〃	CT4-4 (SW OSC Trimmer)	〃
(12)	SW		5.9 MHz	Tune to signal.	〃	L6 (SW ANT Coil)	Adjust for maximum output. Repeat steps (10)~(12).

■ FM ALIGNMENT

	BAND	SIGNAL GENERATOR or SWEEP GENERATOR CONNECTIONS	SIGNAL GENERATOR or SWEEP GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR (ELECTRONICS VOLTMETER or SCOPE)	ADJUSTMENT	REMARKS
		FM-IF ALIGNMENT					
(1)	FM	High side thru. 0.001 µF to test point ▼12. Negative side to test point ▼4.	10.7 MHz (SWP.)	Point of non-interference. (on/about 90 MHz)	Connect vert. amp. of scope to test point ▼3. Negative side to test point ▼5.	T1 (FM 1st IFT)	Adjust for maximum amplitude. (Refer to fig. 2.)
(2)	FM	〃	〃	〃	〃	T3 (FM 2nd IFT)	Adjust for maximum amplitude. (Refer to fig. 3.)

■ FM ALIGNMENT

	BAND	SIGNAL GENERATOR or SWEEP GENERATOR CONNECTIONS	SIGNAL GENERATOR or SWEEP GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR (ELECTRONICS VOLTMETER or SCOPE)	ADJUSTMENT	REMARKS
		FM-RF ALIGNMENT					
(3)	FM	——	——	Variable capacitor fully closed.	Connect vert. amp. of scope to test point ▼3. Negative side to test point ▼4.	VR6	Adjust VR6 for 0.80 ± 0.03 V reading on electronics voltmeter
(4)	FM	Connect to test point ▼1 through FM dummy antenna. Negative side to test point ▼4.	[ZG, ZI only] 87.35 MHz	Variable capacitor fully closed. (VR2 f-min)	Output meter across voice coil.	VR8	Adjust for maximum output.
(5)	FM		[ZG, ZI only] 108.3 MHz	Variable capacitor fully open. (VR2 f-max)	〃	VR7	〃
(6)	FM		[Z] [ZE] [ZF] ...86.2 MHz [ZI] [ZG] ...87.35 MHz	Variable capacitor fully closed. (VR2 f-min)	〃	L2 (FM OSC Coil)	(*2) Adjust for maximum output.
(7)	FM		[Z] [ZE] [ZF] ...109.2 MHz [ZI] [ZG] ...108.3 MHz	Variable capacitor fully open. (VR2 f-max)	〃	CT2 (FM OSC Trimmer)	〃
(8)	FM		106 MHz	Tune to signal.	〃	CT1 (FM ANT Trimmer)	(*2) Adjust for maximum output. Repeat steps (3)~(8).
	(*2) Three output responses will be present; proper tuning is the center frequency.						

■ SEPARATION ALIGNMENT

ITEM	FM SIGNAL GENERATOR SOURCE CONNECTION	EQUIPMENT CONNECTION ELECTRONIC COUNTER	ADJUSTMENT	SPECIFICATION	REMARKS
Adjustment of pilot signal.	98 MHz, 60 dB (CW) Connect to test point ▼1 through FM dummy antenna. Negative side to test point ▼4.	▼6 ...(+) ▼7 ...(−)	VR1	19 kHz	Adjust VR1, for 19 kHz ± 50 Hz reading on electronics counter.

■ TAPE ADJUSTMENT

ITEM	INPUT	MEASUREMENT POINT	SPECIFICATION	ADJUSTMENT POINT	REMARKS
Azimuth (Tape [1] & [2])	QZZCFM (8 kHz, −20 dB)	SP OUT (AC voltmeter & Oscilloscope)	Maximum output	Azimuth screw (FWD, REV)	Playback mode Mode switch→STEREO (Refer to Fig. 4)

■ TAPE SPEED ADJUSTMENT

ITEM	INPUT	MEASUREMENT POINT	ADJUSTMENT POINT	REMARKS
Tape speed adjustment (Tape [1] & [2])	QZZCWAT (3 kHz)	Headphone Jack (32Ω)	301 [Tape 1] (Refer to Fig. 5)	**Normal Speed Adjustment** 1. Insert a test tape (QZZCWAT) in tape [1] and playback. 2. Adjust **VR301** until the measured value becomes **3010 ± 30 Hz**. 3. Check tape [2] in the same way to make sure it satisfies the specification. **Tape [2]**.....**± 50 Hz** of the speed of tape [1]. If it doesn't repeat steps 1 and 2 above. **Note:** This set uses one drive motor, so be sure to perform the adjustment in tape [1]. **High Speed Measurement** 4. Short the high speed pin to set the high speed mode. (TP101-TP201) 5. Check to be sure that the measured speed is at least **1.7 times** faster than normal speed.

■ ALIGNMENT POINT

*Please refer to Circuit Board and Wiring Connection Diagram for test point locations.

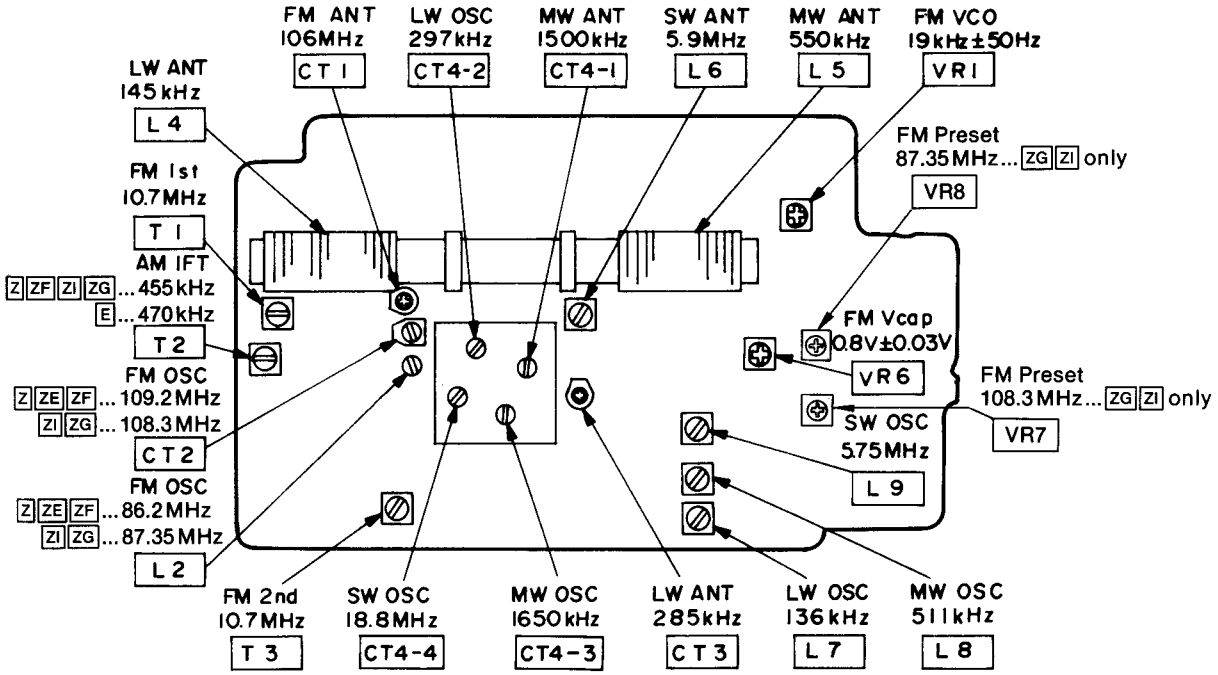


Fig. 1

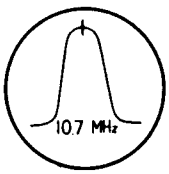


Fig. 2

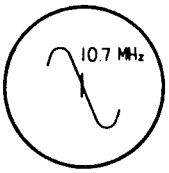


Fig. 3

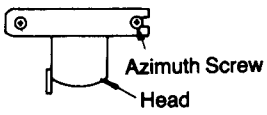


Fig. 4

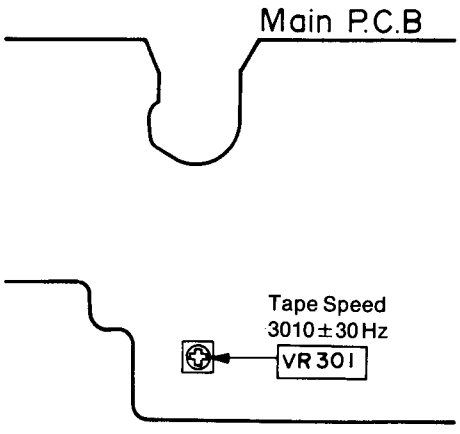
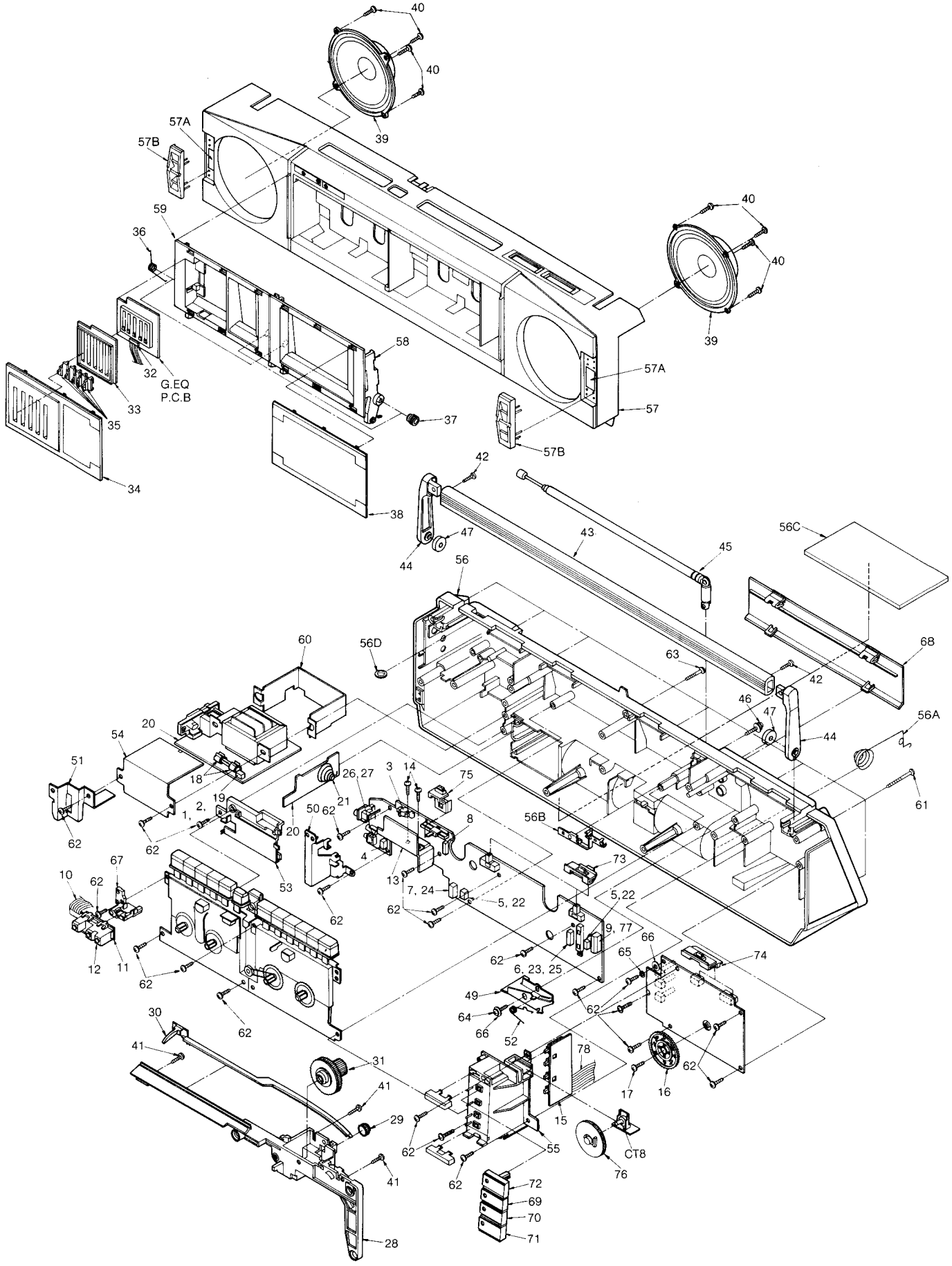


Fig. 5

CABINET PARTS LOCATION



D

CABINET PARTS LIST

Notes: 1. Important safety notice
Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.
2. The letter in square brackets in the Ref. No. column indicates the shipping destination
[Z]...For all European areas except [ZE] [ZF] [ZI] [ZG]
[ZE]...For United Kingdom.
[ZF]...For France.
[ZI]...For Italy and Finland.
[ZG]...For F.R. Germany.
3. [M] mark stands for that the parts are supplied from MESA.

Ref. No.	Part No.	Description
CABINET AND CHASSIS		
1	RJS2L3Z	SOCKET, CP1
2	RJT707Z	TERMINAL
3	RJM164Z	MICROPHONE
4	RJP3G18Z	PLUG (3P)
5	RJP4G18ZA	PLUG (4P)
6	RJP5G18Z	PLUG (5P)
7	RJP6G18ZA	PLUG (6P)
8	RJP6G20Z	PLUG (6P)
9	RJS7T5ZA	SOCKET (7P)
10	WBB5CB-11KK	FLAT CABLE [M]
11	RUP2313YAC	P.C.B. LED [M]
12	RMP278ZA	HOLDER [M]
13	RMY238ZA	HEAT SINK [M]
14	XTN3+6B	SCREW
15	RUP2314YAC	PRESET [M]
16	RDG5845ZAB	GEAR [M]
17	XYN26+C6	SCREW
18 ⚠	RJF28Z	FUSE HOLDER
19	RJP2G4Y	PLUG (2P)
20	RUP2315YAC	P.C.B [M]
21	RJC511Z	TERMINAL
22	RJS4L4Z	SOCKET (4P)
23	RJS5L4Z	SOCKET (5P)
24	RJS6L4Z	SOCKET (6P)
25	RJT807Z	TERMINAL
26	RJS3L4Z	SOCKET(3P)
27	RJT807Z	TERMINAL
28	RUA798ZA-0	DIAL CHASSIS ASS'Y [M]
29	RDG5910ZA	GEAR [M]
30	RDP342ZA-0	POINTER [M]
31	RBT307ZA-0	KNOB, TUNING [M]
32	1JSAFW29ZA	REED WIRE [M]
33	RKE611ZA	COVER [M]
34	RGP1158ZA-0	PANEL [M]
35	RBD498ZA-0	KNOB, EQ [M]
36	RUS665ZAB	SPRING [M]
37	RDG5782Y	GEAR [M]
38	RGP1159ZA-0	CASSETTE PANEL [M]
39	RAS10P27ZA-D	SPEAKER [M]
40	XTV3+10G	SCREW
41	XTV3+12G	SCREW
42	XTC3+8CFN	SCREW
43	RKH148ZA	HANDLE [M]
44	RKX383ZA-0	ARM [M]
45	XEARR225EAY	TELESCOPIC ANTENNA
46	XYN3+F15FY	SCREW
49	RUB523ZA	LEVER [M]
50	RUL991ZA	HOLDER [M]
51	RUL992ZA	HOLDER [M]
52	RUS736ZA	SPRING [M]
53	RUV800ZA	HOLDER [M]
54	RMC1157ZA	SHIELD PLATE [M]
55	RWEXFW29LZKS	HOLDER ASS'Y [M]
56 ⚠ (ZE)	RYFXFW29LZEK	REAR CABINET ASS'Y [M]
56 (ZG)	RYFXFW29LZGK	REAR CABINET ASS'Y [M]
56 (ZI)	RYFXFW29LZIK	REAR CABINET ASS'Y [M]
56 (Z, ZF)	RYFXFW29LZKS	REAR CABINET ASS'Y [M]
56A	RJC931Z	BATTERY TERMINAL
56B	RJT1098ZA	BATTERY TERMINAL [M]
56C (ZI)	RGT1328XA-0	NAME PLATE [M]
56C (ZG)	RGT1328YA-0	NAME PLATE [M]
56C (ZE)	RGT1328ZA-0	NAME PLATE [M]
56D	RHG1155ZAB	MIC RUBBER [M]
57 ⚠ (ZE)	RYMXFW29LZEK	FRONT CABINET ASS'Y [M]
57 (ZG, ZI)	RYMXFW29LZGK	FRONT CABINET ASS'Y [M]
57 (Z, ZF)	RYMXFW29LZKS	FRONT CABINET ASS'Y [M]
57A	RAF05E4M02-T	TWEETER [M]
57B	RGX1721ZA-0	ORNAMENT, TWEETER [M]
58	RYQ2XFW29MKS	CASSETTE LID ASS'Y [M]
59	RYQ1XFW29MKS	CASSETTE LID ASS'Y [M]
60	RMC1175ZA	SHIELD PLATE [M]
61	XTN3+50G	SCREW
62	XTV3+12G	SCREW
63	XTV3+20G	SCREW
64	XTWS3+10Q	SCREW
65	XWA3B	WASHER
66	XWG3	WASHER
67	RHR3168ZA	HOLDER [M]
68	RKK318ZA-0	BATTERY COVER
69	RBC1220ZA-0	BUTTON, FM1 [M]
70	RBC1221ZA-0	BUTTON, FM2 [M]
71	RBC1222ZA-0	BUTTON, FM3 [M]
72	RBC1223ZA-0	BUTTON, MANUAL [M]
73	RBD495ZA-0	KNOB, MODE/B.P [M]
74	RBD496ZA-0	KNOB, EDITING [M]
75	RBD497ZA-0	KNOB, VOLUME [M]
76	RBT309ZA-0	KNOB, FINE TUN [M]
77	WBB7CB-9KM	FLAT CABLE [M]
78	WBB7CB-11KK	FLAT CABLE [M]

MECHANISM PARTS LIST

Notes:
1. [M] indicates parts that are supplied by MESA.
2. See page 11~14 regarding the illustrations.

Ref. No.	Part No.	Description
MECHANISM		
CASSETTE DECK		
101	RFU128ZA	CHASSIS ASS'Y
102	RFY420Z	LEVER
103	RFS459Z	SPRING
104	RFS534Z	SPRING
105	RFY798ZA	LEVER
106	RFS724ZA	SPRING
107	RFX161ZA	STOPPER
108	RFY799ZA	LEVER
109	RFS725ZA	SPRING
110	RFY800ZA	LEVER
111	RFS726ZA	SPRING
112	RFE239Z	SCREW
113	RFU129ZA	SUB CHASSIS ASS'Y
114	RFY801ZA	ARM
115	RFS727ZA	SPRING
116	RFU130ZA	BUTTON BASE ASS'Y
117	RFY802ZA	LEVER
118	RFS728ZA	SPRING
119	RFG111ZA	GEAR
120	RFY803ZA	ARM ASS'Y
121	RFS729ZA	SPRING
122	RFG112ZA	GEAR
123	RFY804ZA	SLIDE PLATE
124	RFY805ZA	LEVER
125	RFS730ZA	SPRING
126	RFY806ZA	ROD
127	RFY807ZA	LEVER
128	RFS731ZA	SPRING
129	RFY808ZA	LEVER
130	RFY809ZA	LEVER
131	RFS732ZA	SPRING
132	RFY810ZA	LEVER
133	RFY811ZA	LEVER
134	RFY812ZA	LEVER
135	RFS733ZA	SPRING
136	RFS734ZA	SPRING
137	RFY813ZA	RELAY PLATE
138	RFY814ZA	PLATE
139	RFS735ZA	SPRING
140	RFY815ZA	ARM
141	RFX162ZA	COLLAR
142	RFY816ZA	ARM
143	RFY817ZA	HEAD PANEL
144	RFY818ZA	R.C PLATE
145	RFS736ZA	SPRING
146	RFX163ZA	COLLAR
147	RFE417ZA	GUIDE
148	RFS737ZA	SPRING
149	1JH0027ZA	P.B HEAD [M]
151	RFD334ZA	ANGLE
152	RFS738ZA	SPRING
153	RFS739ZA	SPRING
154	RFR46ZA	PINCH ROLLER
155	RFR47ZA	PINCH ROLLER
156	RFU131ZA	REEL PLATE ASS'Y
157	RFJ77ZA	REEL TABLE
159	RFE418ZA	SCREW
160	RFY819ZA	ARM ASS'Y
161	RFG113ZA	GEAR
162	RFY820ZA	ARM ASS'Y
163	RFX164ZA	COLLAR
164	RFS740ZA	SPRING
165	RFF56ZA	FLYWHEEL ASS'Y
166	RFB90ZA	BELT
167	RFD335ZA	ANGLE
168	RFY821ZA	LEVER
169	RFY582Z	LEVER
170	RFE419ZA	SCREW
171	RFI38Z	RUBBER
172	RFE213Z	SCREW
173	RFI49ZA	CUSHION
175	RFM127ZA	MOTOR ASS'Y [M]
176	RFS741ZA	SPRING
177	RFD232Z	ANGLE
178	RFY822ZA	PLATE
179	RFS743ZA	SPRING
180	FI50ZA	CUSHION
181	RFB91ZA	BELT
182	RFY823ZA	ARM
183	RFE420ZA	SCREW
184	RFE222Z	SCREW
185	RFN134Z	SCREW
186	RFE422ZA	SCREW
187	RFE423ZA	SCREW
188	RFE424ZA	SCREW
189	RFN122Z	WASHER
190	RFN136Z	WASHER
191	RFN182ZA	WASHER
192	RFE425ZA	SCREW
193	RFE421ZA	SCREW
194	RFN133Z	WASHER
195	RFE426ZA	SCREW
196	RFN139Z	WASHER
197	RFN183ZA	WASHER
198	RFE427ZA	SCREW
199	RFN184ZA	WASHER
200	RFE428ZA	SCREW
201	RFU61YA	MAIN BASE PLATE
202	RFY541Z	LEVER
203	RFY764ZA	LEVER
204	RFY542Z	LEVER
205	RFY543Z	LEVER
206	RFY544Z	LEVER
207	RFY545Z	LEVER
208	RFY824ZA	LEVER
209	RFY547Z	LEVER
210	RFY548Z	LEVER
211	RFY825ZA	LEVER
212	RFS459Z	SPRING
213	RFX122Z	STOPPER
214	RFS462Z	SPRING
215	RFU62Z	SUB CHASSIS
216	RFS463Z	SPRING
217	RFS530Z	SPRING
218	RFS744ZA	R/P SPRING
219	RFS464ZA	SPRING
220	RFY549Z	LEVER
221	RFS453Z	SPRING
222	RFS561Z	SPRING
224	RFY591Z	LEVER
226	RFE227Z	HEAD PANEL
228	RFY626Z	ARM ASS'Y
229	RFE245Z	SCREW
230	RFS745ZA	SPRING
231	RFU39Z	HEAD BASE
232	RFX101Z	PR STOPPER
233	RFE255Z	SCREW
234	RFS447Z	SPRING
235	RFR48ZA	PINCH ROLLER
236	RFS746ZA	SPRING
238	RFE279Z	METAL GUIDE
239	RFQ47Z	PULLEY ARM ASS'Y
240	RFS532Z	SPRING
241	RFE281Z	SCREW
242	RFB62Z	BELT
244	RFF55ZA	WHEEL
245	RFU132ZA	REEL PLATE ASS'Y
246	RFY826ZA	PLATE ASS'Y
247	RFG109ZA	GEAR
248	RFS450Z	SPRING
249	RFG110ZA	GEAR
250	RFS723ZA	SPRING
251	RFJ62Z	REEL TABLE ASS'Y
252	RFJ78ZA	REEL TABLE ASS'Y
253	RFY716Z	LEVER
254	RFS707ZA	SPRING
258	RFY581Z	LEVER
259	RFS454Z	SPRING
262	RJH2E9Y	R/P HEAD
263	RJH2C12XZ	E.HEAD
264	RFY397Z	ARM

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Ref. No.	Part No.	Description*		Ref. No.	Part No.	Description	
265	RFS567Z	SPRING		292	RFN171ZA	WASHER	
266	RFS535Z	SPRING		293	RFI37Z	RUBBER	
269	RFE232Z	SCREW		294	RFX138Z	COLLAR	
270	RFE222Z	SCREW		295	RFY717Z	LEVER	
271	RFE221Z	SCREW		296	RFS749ZA	SPRING	
272	RFE429ZA	SCREW		298	RFS731ZA	SPRING	
273	RFE430ZA	SCREW		299	RFS750ZA	SPRING	
275	RFD336ZA	ANGLE		301	RHR3070ZBB	SPACER	Ⓜ
276	RFQ52ZA	PULLEY		302	RHR183ZA	HOLDER	Ⓜ
277	RFB67Z	BELT		303	XTN2+4F	SCREW	
278	RFB92ZA	BELT		304	RBC1208ZA-0	BUTTON	Ⓜ
279	RSE240ZA	TAPE COUNTER	Ⓜ	305	RBC1209ZA-0	BUTTON	Ⓜ
281	RFS747ZA	SPRING		306	RBC1210ZA-0	BUTTON	Ⓜ
282	RFS748ZA	SPRING		307	RBC1211ZA-0	BUTTON	Ⓜ
284	RFN123Z	WASHER		308	RBC1212ZA-0	BUTTON	Ⓜ
285	RFE229Z	SCREW		309	RBC1213ZA-0	BUTTON	Ⓜ
286	RFE425ZA	SCREW		310	RBC1214ZA-0	BUTTON	Ⓜ
287	RFE416ZA	SCREW		311	RBC1215ZA-0	BUTTON	Ⓜ
288	XSN2+6	SCREW		312	RBC1216ZA-0	BUTTON	Ⓜ
289	RFE89Z	SCREW		313	RBC1217ZA-0	BUTTON	Ⓜ
290	RFE230Z	SCREW		314	RBC1218ZA-0	BUTTON	Ⓜ
291	RFN169Z	WASHER		315	RBC1219ZA-0	BUTTON	Ⓜ

ELECTRICAL PARTS LIST

Notes: 1. Important safety notice
Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.
2. The letter in square brackets in the Ref. No. column indicates the shipping destination
[Z]...For all European areas except [ZE] [ZF] [ZI] [ZG]
[ZE]...For United Kingdom.
[ZF]...For France.
[ZI]...For Italy and Finland.
[ZG]...For F.R. Germany.
3. Ⓜ mark stands for that the parts are supplied from MESA.

Ref. No.	Part No.	Description	
INTEGRATED CIRCUITS			
IC1	AN7205	I.C. FRONT END	
IC2	BA4236L	I.C. FM/AM IF	
IC3	RV I BA1332L	I.C. FM MPX	
IC301	AN7310N	I.C. PRE AMP	
IC302	BA3310N	I.C. REC AMP	
IC303	RV I BA6433	I.C. AMBI ENCE	
IC304	AN7147N	I.C., POWER AMP	
IC501	BA3822LS	I.C. G.EQ AMP	
TRANSISTORS			
Q1	2SC829BTA	TRANSISTOR	
Q2, Q3	2SC1685-Q	TRANSISTOR	
Q4	2SA722-S	TRANSISTOR	
Q101	2SC1685-Q	TRANSISTOR	
Q102	2SC2001L1	TRANSISTOR	
Q201	2SC1685-Q	TRANSISTOR	
Q202	2SC2001L1	TRANSISTOR	
Q301	2SC1684STA	TRANSISTOR	
Q302, Q303	2SC1685-Q	TRANSISTOR	
Q304	2SC1685-Q	TRANSISTOR	
Q305	2SK301QTA	TRANSISTOR	Ⓜ
Q306	2SC2001L1	TRANSISTOR	
Q307	2SK301QTA	TRANSISTOR	Ⓜ
Q308, Q309	2SC1685-Q	TRANSISTOR	
Q310	2SC1684STA	TRANSISTOR	
Q311, Q312	2SC1685-Q	TRANSISTOR	
DIODES			
D1	RVDKV1330A2	DIODE	
D3	MA165	DIODE	
D4	MA840B	DIODE	
D5	RVDRD5R1ES2T	DIODE	
D101, D201	MA165	DIODE	
D301	RVDRD6R2ES3T	DIODE	
D302	RVDRD10ES1T	DIODE	
D303	MA165	DIODE	
D304, D305	LN28RPHTA	L.E.D	Ⓜ
D306	LN28RPHTA	L.E.D	Ⓜ
D307	RVDMTZ6R2B	DIODE	
D401, D402	RVD1SR35	DIODE	
D403, D404	RVD1SR35	DIODE	
D405, D406	RVD1SR35	DIODE	
VARIABLE RESISTORS			
VR1	EVND4AA00B14	V.R. FM VCO	
VR3 (ZG, ZI)	EVUF2AE35B15	V.R. FM1	Ⓜ
VR3 (Z, ZE, ZF)	EVUF2AE35B54	V.R. FM1	Ⓜ
VR4 (ZG, ZI)	EVUF2AE35B15	V.R. FM2	Ⓜ
VR4 (Z, ZE, EF)	EVUF2AE35B54	V.R. FM2	Ⓜ
VR5 (ZG, ZI)	EVUF2AE35B15	V.R. FM3	Ⓜ
VR5 (Z, ZE, ZF)	EVUF2AE35B54	V.R. FM3	Ⓜ
VR6 (ZG, ZI)	EVM4LGA00B53	V.R. FM F-MIN	Ⓜ
VR6 (Z, ZE, ZF)	EVND4AA00B53	V.R., FM F-MIN	
VR7, VR8 (ZG, ZI)	EVND4AA00B13	V.RESISTOR	
VR101	EWAGE2C95A54	V.R. VOLUME	
VR301	EVND4AA00B53	V.R. TAPE SPEED	
VR501	EVBJT2PA1201	V.R., GRAPHIC	
VARIABLE CAPACITORS			
CT1	RCVTZ20F	TRIMMER	
CT2	RCV15AF1-S	TRIMMER	
CT3	RCVTZ20F	TRIMMER	
CT8	RCVMH60C8	TRIMMER CAPACITOR	
CV1	RCV2R6V1K-M	VARIABLE CAPACITOR	
THERMISTORS AND VARISTORS			
TH1 (Z, ZE, ZF)	RRT202	THERMISTOR	
COILS AND TRANSFOMERS			
L2 (Z, ZE, ZF)	RL04N236-0	COIL	Ⓜ
L2 (ZG, ZI)	RL04N248-0	COIL	
L3	RLQY30S4	COIL	

Ref. No.	Part No.	Description	
L4	RLF6W151	ANTENNA COIL	
L6	RLA3B41	COIL	
L7	RL01B13	OSCILLATOR COIL	
L8	RL02B108	COIL	
L9	RLA3B41	COIL	
L10	RLQY30S4	COIL	
L11	RLQY75S5	COIL	
L42 (Z, ZE, ZF)	RLQZB470K	COIL	
L101, L201	RLQZR102KT-Y	COIL	
L301	RLQZB101K	COIL	
L401, L402 ⚠ (ZG, ZI)	RLQZB470K	COIL	
T1	RL14B153	I.F.TRANSFORMER	
T2	RL12B153	I.F.TRANSFORMER	
T3	RL14B153	I.F.TRANSFORMER	
T301	RL09B17	COIL	
T401 ⚠ (ZE)	RLT5L4A3B-S	TRANSFORMER	Ⓜ
T401 ⚠ (Z, ZF, ZG) (ZI)	RLT5L4G3B-S	TRANSFORMER	Ⓜ
COMPONENT COMBINATIONS			
Z1	RXABPMB6A	COMBINATION PARTS	
FILTERS			
CF1	RVF107WMZ	CERAMIC FILTER	
CF2 (Z, ZF, ZG) (ZI)	RVFSFZ455JZ	CERAMIC FILTER	
CF2 (ZE)	RVFSFZ470JL	CERAMIC FILTER	

Ref. No.	Part No.	Description	
FUSES			
F1 ⚠	XBA2C16TB0U	FUSE	
SWITCHES			
S1	RSS4H04Z	SW, BAND	
S2	ESB621666	SW, FM PRESET	Ⓜ
S3	RSS3A15Z	SW, FM MODE	
S4	RSS3D28ZA-H	SW, FUNCTION	Ⓜ
S5	RSS3B31Z	SW, EDITING	Ⓜ
S7	RSH2H03RA-A	SW, R / P	Ⓜ
S501 ⚠	RJJA6Z	JACK W/SW	
OTHERS			
J1	RJF1096Z	JACK, CD/LINE	
J2	RJJD7S2Z	JACK, H.P	
J3	RJJ1D20Y	JACK, MIX, MIC	
J4 ⚠ (Z, ZF, ZG) (ZI)	RJJA6Z	JACK W/SW	
J4 ⚠ (ZE)	RJJA7Z	JACK W/SW	
L42 (Z, ZE, ZF)	RLQZB470K	COIL	
L101, L201	RLQZR102KT-Y	COIL	
L301	RLQZB101K	COIL	
L401, L402 ⚠ (ZG, ZI)	RLQZB470K	COIL	
T1	RL14B153	I.F.TRANSFORMER	
T2	RL12B153	I.F.TRANSFORMER	
T3	RL14B153	I.F.TRANSFORMER	
T301	RL09B17	COIL	

RESISTOR AND CAPACITOR PARTS LIST

Numbering System of Resistor

Example:

ERD	25	F	J	101
Type	Wattage	Shape	Tolerance	Value (100Ω)

ERJ	6G	C	J	2R2
Type	Wattage	Shape	Tolerance	Value (2.2Ω)

Numbering System of Capacitor

Example:

ECKD	1H	102	Z	F
Type	Voltage	Value (1000pF)	Tolerance	Peculiarity

ECEA	50	M	R47
Type	Voltage	Peculiarity	Value (0.47μF)

Resistor Type		Wattage	Tolerance
ERD:	Carbon Resistor	10 : 1/8W	F : ±1%
ERC:	Solid Resistor	25 : 1/4W	G : ±2%
ERF:	Incombustible Box-Shaped Wire-Wound Resistor	50 : 1/2W	J : ±5%
		18 : 1/8W	K : ±10%
		14 : 1/4W	M : ±20%
		12 : 1/2W	
ERG:	Metal Oxide-Film Resistor	1 : 1W	
		2 : 2W	
ERM:	Wire-Wound Resistor	3 : 3W	
		S1 : 1/2W	
ERO:	Superstable Metal Film Resistor	S2 : 1/4W	
		6G : 1/10W	
		8G : 1/8W	
ERX:	Metal-Film Resistor		
RRJ: ERJ:	Chip Resistor		

※ Capacity are in microfarads (μF) unless specified otherwise, P=Pico-farads.
※ Resistance are in ohms (Ω), unless specified otherwise, 1K=1,000Ω, 1M=1,000KΩ

Capacitor Type		Voltage		Tolerance
ECCD:	Ceramic Capacitor (Chitacon)	(ECCD, ECKD Type)		K : ±10%
		1H : 50V DC	2H : 500V DC	M : ±20%
ECKD:	Ceramic Capacitor (Chitabari)	(ECFD Type)		Z : +80% −20%
		C : 12V DC	D : 25V DC	
ECFD:	Semiconductor Ceramic Capacitor	E : 50V DC		J : ±5%
		(ECQ Type)		G : ±2%
ECE□:	Electrolytic Capacitor	05 : 50WV DC	1 : 100WV DC	F : ±1%
ECS□:	Tantalum Fixed Electrolytic Capacitor	(ECE, ECS Type)		C : ±0.25pF
		0G : 4V	0J : 6.3V	D : ±0.5pF
ECQ□:	Polystyrenc Film Capacitor	1A : 10V	1C : 16V	
		1E : 25V	1V : 35V	
ECQS:	Polystyrene Film Capacitor	1H : 50V	1J : 63V	
		2A : 100V		
ECQS:	Polypropylene Film Capacitor			
ECQV:	T.F Capacitor			
ECU□: RCU□:	Chip Capacitor			
ECBT:	Cylindrical Ceramic Capacitor			

Ref. No.	Part No.
RESISTORS	
R1	ERDS2TJ220T
R2	ERDS2TJ474
R3, R4	ERDS2TJ104
R5	ERDS2TJ474
R6	ERDS2TJ101
R7	ERDS2TJ100
R8	ERDS2TJ474
R9	ERDS2TJ101
R10	ERDS2TJ474
R11	ERDS2TJ101
R12	ERDS2TJ470
R13	ERDS2TJ471
R14	ERDS2TJ101
R15	ERDS2TJ474
R16	ERDS2TJ222
(ZF)	
R16	ERDS2TJ392
(Z, ZE, ZG)	
(ZI)	
R17	ERDS2TJ472
(ZF)	
R17	ERDS2TJ822
(Z, ZE, ZG)	
(ZI)	
R18	ERDS2TJ472
R19	ERDS2TJ152
(ZG, ZI)	
R20	ERDS2TJ472
R21	ERDS2TJ472
(ZF)	
R21	ERDS2TJ562
(Z, ZE, ZG)	
(ZI)	
R22	ERDS2TJ472
(ZF)	
R22	ERDS2TJ562
(Z, ZE, ZG)	
(ZI)	
R23	ERDS2TJ821
R24	ERDS2TJ102
R25	ERDS2TJ333
(Z, ZE, ZG)	
(ZI)	
R25	ERDS2TJ683
(ZF)	
R26	ERDS2TJ822
R27	ERDS2TJ102
R28	ERDS2TJ332
R29	ERDS2TJ102
R30	ERDS2TJ472
R31	ERDS2TJ104
R32	ERDS2TJ470
R33, R34	ERDS2TJ103
R35	ERDS2TJ332
(Z, ZE, ZF)	
R36	RRSA36J182TH
(Z, ZE, ZF)	
R36	RRSA50J471TH
(ZG, ZI)	
R50	ERDS2TJ103
R51	ERDS2TJ333
(ZG, ZI)	
R101	ERDS2TJ563
R102	ERDS2TJ562
R103	ERDS2TJ330
R104	ERDS2TJ823
R105	ERDS2TJ153
R106	ERDS2TJ103
R107	ERDS2TJ153
R108	ERDS2TJ272
R110	ERDS2TJ223
R111	ERDS2TJ103
R112	ERDS2TJ682
R113	ERDS2TJ123
(Z, ZE, ZG)	
(ZI)	
R113	ERDS2TJ682
(ZF)	
R114	ERDS2TJ102
R115	ERDS2TJ221
R116	ERDS2TJ471
R117	ERDS2TJ103
R118	ERDS2TJ2R2
R120	ERDS2TJ101
R121	ERDS2TJ222
R122	ERDS2TJ103
R123	ERDS2TJ332
R124, R125	ERDS2TJ273
R201	ERDS2TJ563
R202	ERDS2TJ562
R203	ERDS2TJ330
R204	ERDS2TJ823
R205	ERDS2TJ153
R206	ERDS2TJ103
R207	ERDS2TJ153
R208	ERDS2TJ272
R210	ERDS2TJ223
R211	ERDS2TJ103
R212	ERDS2TJ682
R213	ERDS2TJ123
(Z, ZE, ZG)	
(ZI)	
R213	ERDS2TJ682
(ZF)	
R214	ERDS2TJ102
R215	ERDS2TJ221
R216	ERDS2TJ471
R217	ERDS2TJ103
R218	ERDS2TJ2R2
R220	ERDS2TJ101
R221	ERDS2TJ222
R222	ERDS2TJ103
R223	ERDS2TJ332
R224, R225	ERDS2TJ273
R301	ERDS2TJ334
R302, R303	ERDS2TJ222
R304	ERDS2TJ101
R305, R306	ERDS2TJ222
R307	ERDS2TJ101
R308	ERDS2TJ6R8T
R310	ERDS2TJ472
R311	ERDS2TJ471
R312	ERDS2TJ223
R313	ERDS2TJ105
R314	ERDS2TJ102
R315	ERDS2TJ103
R316	ERDS2TJ472
R317	ERDS2TJ681

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Ref. No.	Part No.
R318	ERDS2TJ153
R320	ERDS2TJ103
R321	ERDS2TJ153
R322	ERDS2TJ221
R323, R324	ERDS2TJ102
R325	ERDS2TJ105
R326	ERDS2TJ103
R327, R328	ERDS2TJ105
R330	ERDS2TJ222
R331	ERDS2TJ102
R332, R333	ERDS2TJ331
R334	ERDS2TJ103
R335	ERDS2TJ821
R336, R337	ERDS2TJ181
R338	ERDS2TJ822
R339	ERDS2TJ334
R340	ERDS2TJ471
R341	ERDS2TJ222
R342	ERDS2TJ472
R343	ERDS2TJ103
R344, R345	ERDS2TJ472
R346	ERDS2TJ104
R347	ERDS2TJ471
R402	ERX12SJ2R2P
R501	ERDS2TJ152
R502	ERDS2TJ472
R503	ERDS2TJ153
R551	ERDS2TJ152
R552	ERDS2TJ472
R553	ERDS2TJ153
CAPACITORS	
C1	ECKF1H102KB
C2	RCBS1H102KB
C3	ECCT1H040CC
C4	RCBS1H391KBY
C5	RCBS1H102KB
C6	ECEA50ZR47E
C7	RCBS1H180JC
C8	ECCD1H221J
(Z, ZE, ZF)	
C8	ECCD1H331K
(ZG, ZI)	
C9	RCBS1H102KB
C10	ECCD1H470KC
C11	ECKF1H102KB
C12	RCBS1H120JC
(Z, ZE, ZG)	
(ZI)	
C12	RCBS1H150JC
(ZF)	
C13	ECKF1H102KB
C14	ECEA1HU2R2
C15, C16	ECFT1C223MD
C17	ECFV1C104MD
C18	RCBC1H331KB
C19	RCBS1H102KB
C20	ECEA0JU101B
C21, C22	ECFT1C223MD
C23	ECEA1HU2R2
C24	ECEA1CU220
C25	ECFT1C103MD
(Z, ZE, ZG)	
(ZI)	
C25	ECFT1C183MDY
(ZF)	
C26	ECEA1HU2R2
C27	RCBS1C103MYY
C28	ECEA50ZR47E
C29	ECCT1H100KC
C30	ECEA1HUR33
C31	ECEA1HU010
C32	ECQG1H102KZT
C33	ECEA50ZR47E
C34	ECEA0JU101B
C35	ECEA0JU330
C36	RCBS1H100JC
C37	RCBS1H220JL
(ZG, ZI)	
C37	RCBS1H270JL
(Z, ZE, ZF)	
C38	RCBS1H390JL
C39	ECCT1H150K
(ZG, ZI)	
C40	RCBS1H6R8KC
C41	ECFT1C223MD
C42	ECCT1H180KC
C44	ECCT1H120KC
C45	ECQP2A221JZ
C46	ECQP2A151JZ
C47	ECQP2A361JZ
C48	ECQP2A392JZ
C49	RCBC1H331KB
C50	ECFT1C223MD
C51	ECFV1E473MD
C52	ECKF1H102KB
C53	RCBS1H3R3KC
(ZG, ZI)	
C101	ECEA1HU010
C102	RCBS1H471KB
C104	ECFD1C153KD
C105	RCBS1H102KB
C106	ECEA0JU101B
C107	ECEA1HU010
C108	ECFV1E473MD
C109	ECFT1C153MD
C110	ECEA1HU010
C111	ECEA1EU4R7
C112	ECEA1HU010
C113	ECFD1C223KD
C114	ECEA0JU330
C115	ECEA1HU010
C116	ECEA0JU101B
C117	ECEA1HU010
C118	RCBS1H102KB
C119	ECEA50ZR47E
C120	ECEA1AU470
C121	ECEA1AU102
C122	ECFV1E683MD
C123	ECQM1H224JZ
C201	ECEA1HU010
C202	RCBS1H471KB
C204	ECFD1C153KD
C205	RCBS1H102KB
C206	ECEA0JU101B
C207	ECEA1HU010
C208	ECFV1E473MD
C209	ECFT1C153MD
C210	ECEA1HU010
C211	ECEA1EU4R7
C212	ECEA1HU010
C213	ECFD1C223KD
C214	ECEA0JU330
C215	ECEA1HU010
C216	ECEA0JU101B
C217	ECEA1HU010
C218	RCBS1H102KB
C219	ECEA50ZR47E
C220	ECEA1AU470
C221	ECEA1AU102
C222	ECFV1E683MD
C223	ECQM1H224JZ
C301	ECEA0JU330
C302	ECEA0JU471
C303	ECFT1C223MD
C304	ECEA1HU010
C305	RCBS1H102KB
C306	RCBS1C222MX
C307	RCBS1C103MYY
C308	ECCT1H181K
C309	ECFV1E473MD
C310	ECQS2B272KZ
C311	ECEA1HU010
C312	ECEA1CV221SE
C313	ECFT1C223MD
C314	ECFT1C103MD
C315, C316	ECEA1CU100
C317	ECEA1CU100
C318	ECEA0JU470
C319	ECFD1C223MD
C320	ECEA1EU330
C321	ECEA1CU100
C322	RCBS1H102KB
C323	ECFT1C103MD
C324	ECFT1C153MD
C325	ECEA50ZR47E
C326	ECEA1AU471
C327	ECEA1EU102E
C328	ECEA1AU221
C329	ECEA0JU221
C330	RCBS1C103MYY
C331	ECEA1EU222
C332	ECEA0JU470
C333	ECQP2A561JZ
C334	RCBS1C103MYY
C335, C336	RCBS1H102KB
C337	ECEA1EU330
C338	RCBS1H471KB
C339	ECEA0JU101B
C401, C402	ECKD1H103ZF
C403, C404	ECKD1H103ZF
C405	ECEA1EU101
C501	RCBS1H471KB
C502, C503	ECEA1HKS010
C504	RCBS0J223NYY
C505	ECEA1HKS2R2
C506	RCBS1C103MYY
C507	ECEA1HKSR33
C508	RCBC1C332MXY
C509	ECEA1HKS0R1
C510	RCBS1C222MX
C511, C512	RCBS0J223NYY
C551	RCBS1H471KB
C552, C553	ECEA1HKS010
C554	RCBS0J223NYY
C555	ECEA1HKS2R2
C556	RCBS1C103MYY
C557	ECEA1HKSR33
C558	RCBC1C332MXY
C559	ECEA1HKS0R1
C560	RCBS1C222MX
C561, C562	RCBS0J223NYY

ACCESSARY AND PACKING PARTS LIST

Ref. No.	Part No.	Description
PACKINGS		
P1	RPH593ZA	PROTECTION COVER M
P2	RPN9563ZA	PAD M
P3	RPK2567ZA	CARTON BOX M
ACCESSORIES		

Ref. No.	Part No.	Description
A1	RQX5031ZA	INSTRUCTION MANUAL M
A2 ⚠	RJA20Z	POWER CORD
(Z, ZF, ZG)		
(ZI)		
A2 ⚠	RJA86Z	POWER CORD
(ZE)		

Printed in Japan
870709700 H YU/KH